

DATA SHEET

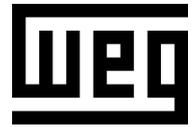


Three Phase Induction Motor - Squirrel Cage

Customer :																																														
Product line : W22 Cooling Tower NEMA Premium Efficiency Three-Phase	Product code : 11972332 Catalog # : 00518ET3ECT184T-W22																																													
Frame : 182/4T Output : 5 HP (3.7 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 13.0/6.49 A L. R. Amperes : 97.4/48.7 A LRC : 7.5x(Code J) No load current : 5.80/2.90 A Rated speed : 1750 rpm Slip : 2.78 % Rated torque : 15.0 ft.lb Locked rotor torque : 229 % Breakdown torque : 290 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.4003 sq.ft.lb Design : B	Locked rotor time : 27s (cold) 15s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-2 Rotation ¹ : Both (CW and CCW) Noise level ² : 56.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 100 lb																																													
<table border="1"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> <td>Foundation loads</td> <td></td> </tr> <tr> <td rowspan="4">Efficiency (%)</td> <td>88.2</td> <td>87.7</td> <td>88.5</td> <td>87.5</td> <td rowspan="4">Max. traction</td> <td rowspan="4">: 263 lb</td> </tr> <tr> <td>86.4</td> <td>86.2</td> <td>86.7</td> <td>86.5</td> </tr> <tr> <td>89.1</td> <td>88.0</td> <td>88.5</td> <td>87.5</td> </tr> <tr> <td>88.0</td> <td>87.5</td> <td>88.5</td> <td>87.5</td> </tr> <tr> <td rowspan="4">Power Factor</td> <td>0.38</td> <td>0.38</td> <td>0.62</td> <td>0.61</td> <td rowspan="4">Max. compression</td> <td rowspan="4">: 364 lb</td> </tr> <tr> <td>0.34</td> <td>0.31</td> <td>0.57</td> <td>0.53</td> </tr> <tr> <td>0.45</td> <td>0.41</td> <td>0.69</td> <td>0.65</td> </tr> <tr> <td>0.38</td> <td>0.61</td> <td>0.74</td> <td>0.80</td> </tr> </table>	Output	25%	50%	75%	100%	Foundation loads		Efficiency (%)	88.2	87.7	88.5	87.5	Max. traction	: 263 lb	86.4	86.2	86.7	86.5	89.1	88.0	88.5	87.5	88.0	87.5	88.5	87.5	Power Factor	0.38	0.38	0.62	0.61	Max. compression	: 364 lb	0.34	0.31	0.57	0.53	0.45	0.41	0.69	0.65	0.38	0.61	0.74	0.80	
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Losses at normative operating points (speed;torque), in percentage of rated output power																																														
Losses (%)	P1 (0,9;1,0)	11.2	13.4	12.8	12.8	14.9	13.6	13.6																																						
	P2 (0,5;1,0)	9.4	11.2	10.7	10.7	12.5	11.4	11.4																																						
	P3 (0,25;1,0)	8.7	10.3	9.9	9.9	11.5	10.5	10.5																																						
	P4 (0,9;0,5)	5.3	6.4	6.1	6.1	7.1	6.5	6.5																																						
	P5 (0,5;0,5)	3.7	4.4	4.2	4.2	4.9	4.4	4.4																																						
	P6 (0,5;0,25)	2.4	2.9	2.7	2.7	3.2	2.9	2.9																																						
	P7 (0,25;0,25)	1.7	2.1	2.0	2.0	2.3	2.1	2.1																																						
Bearing type	:	Drive end 6207 2RS		Non drive end 6206 2RS																																										
Sealing	:	V'Ring		V'Ring																																										
Lubrication interval	:	-		-																																										
Lubricant amount	:	-		-																																										
Lubricant type	:	Mobil Polyrex EM																																												
Notes:																																														
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.																																										
Rev.	Changes Summary			Performed	Checked	Date																																								
Performed by																																														
Checked by					Page	Revision																																								
Date	28/03/2024				1 / 2																																									

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Customer : _____

Space heater information

Voltage: 110-127/200-240 V

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	28/03/2024		2 / 2	